

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032824\
 Data File : VU058240.D
 Acq On : 28 Mar 2024 15:31
 Operator : MD/SY
 Sample : P1902-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 29 01:10:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 29 01:09:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	71848	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	68649	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	32549	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	22168	3.651	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.000%
7) Chloroethane-d5	1.907	69	21781	4.395	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.800%
11) 1,1-Dichloroethene-d2	2.560	65	9614	3.814	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.200%
20) 2-Butanone-d5	4.624	46	58029	53.797	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.600%
24) Chloroform-d	5.052	84	48846	4.500	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.000%
26) 1,2-Dichloroethane-d4	5.695	65	24158	4.760	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.200%
32) Benzene-d6	5.721	84	93336	4.186	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.800%
36) 1,2-Dichloropropane-d6	6.682	67	30549	4.649	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.000%
41) Toluene-d8	7.891	98	76441	3.870	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.400%
43) trans-1,3-Dichloroprop...	8.174	79	9338	4.435	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.600%
46) 2-Hexanone-d5	8.627	63	43209	50.672	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.340%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	20916	4.886	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	28931	4.773	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.400%

Target Compounds			Qvalue			
5) Vinyl chloride	1.599	62	17637	4.282	ug/L	99
12) 1,1-Dichloroethene	2.573	96	72695	20.182	ug/L #	67
16) Methylene chloride	3.036	84	67875	13.298	ug/L	98
18) trans-1,2-Dichloroethene	3.345	96	89460	23.764	ug/L	99
22) cis-1,2-Dichloroethene	4.656	96	17024	3.660	ug/L	92
27) 1,2-Dichloroethane	5.785	62	64913	12.890	ug/L	100
29) 1,1,1-Trichloroethane	5.309	97	26097	3.677	ug/L	99
31) Carbon tetrachloride	5.518	117	19296	3.194	ug/L	96
33) Benzene	5.766	78	126467	7.014	ug/L	100
34) Trichloroethene	6.534	95	17879	3.806	ug/L	96
35) Methylcyclohexane	6.682	83	6720	1.026	ug/L #	20
37) 1,2-Dichloropropane	6.785	63	18208	3.615	ug/L #	94
42) Toluene	7.962	91	183226	9.618	ug/L	97
45) 1,1,2-Trichloroethane	8.393	97	37537	11.832	ug/L	98
47) Tetrachloroethene	8.547	164	63775	20.270	ug/L	97
49) Dibromochloromethane	8.547	129	63605	18.322	ug/L #	10
51) Chlorobenzene	9.441	112	159798	13.019	ug/L	99
52) Ethylbenzene	9.563	91	88300	4.151	ug/L	100
53) m,p-Xylene	9.685	106	171078	22.572	ug/L	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

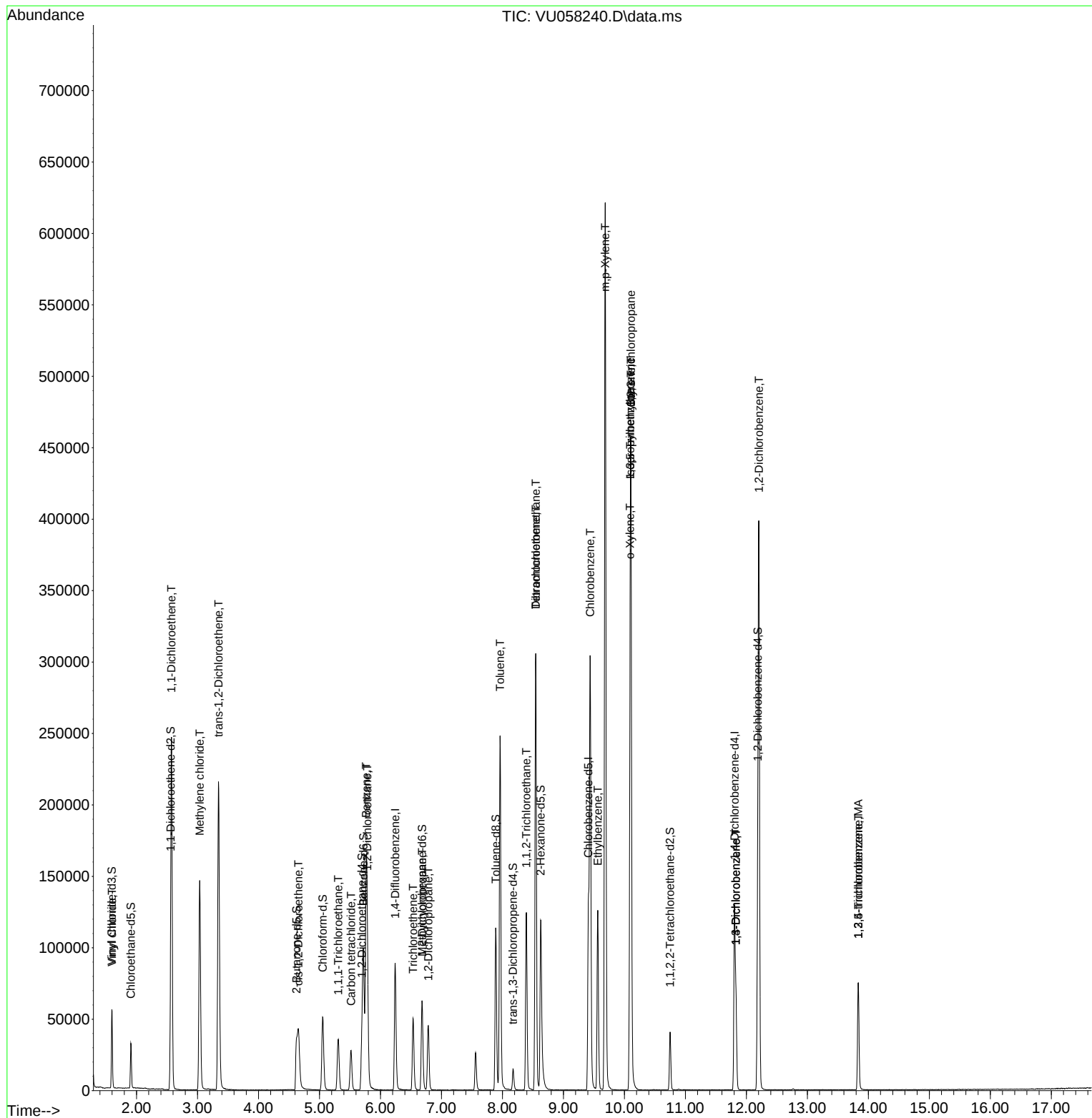
54) o-Xylene	10.094	106	50421	6.590	ug/L	99
55) Styrene	10.106	104	178330	14.762	ug/L	95
60) Isopropylbenzene	10.097	105	35839	1.833	ug/L #	1
61) 1,2,3-Trichloropropane	10.106	75	9329	3.423	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.097	105	35839	2.184	ug/L #	30
64) 1,3-Dichlorobenzene	11.830	146	23295	2.558	ug/L	98
65) 1,4-Dichlorobenzene	11.830	146	23295	2.647	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	144421	17.149	ug/L	97
69) 1,3,5-Trichlorobenzene	13.836	180	24019	3.772	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	24019	5.057	ug/L	98

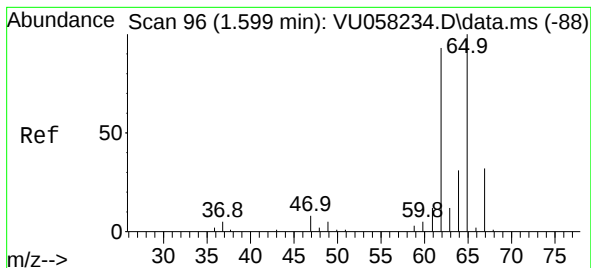
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 4.282 ug/L

RT: 1.599 min Scan# 90

Delta R.T. -0.000 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

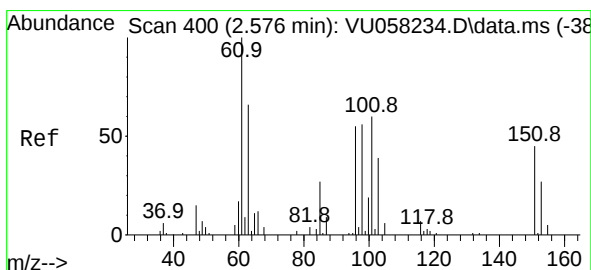
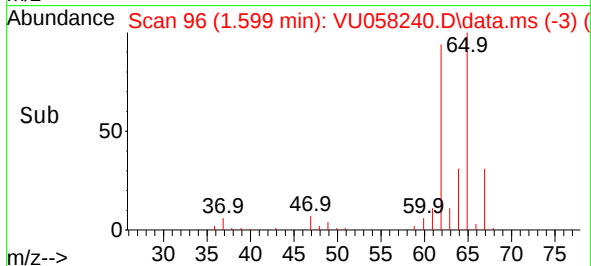
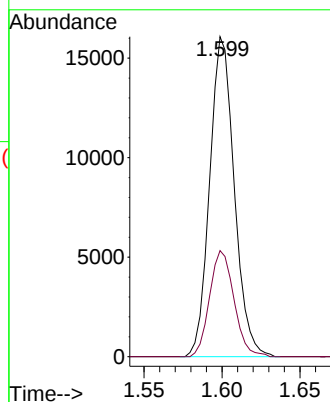
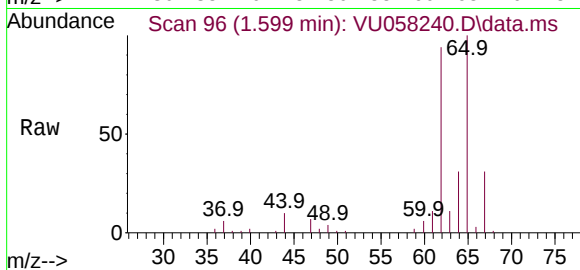
ClientSampleId :

Tgt Ion: 62 Resp: 17637

Ion Ratio Lower Upper

62 100

64 33.2 23.4 43.6



#12

1,1-Dichloroethene

Concen: 20.182 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

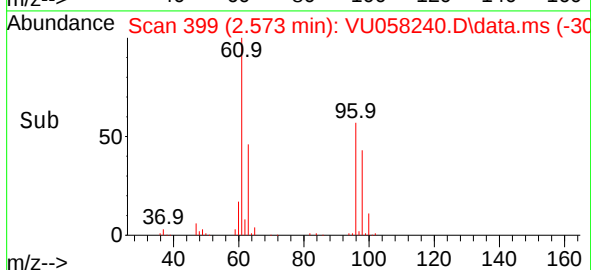
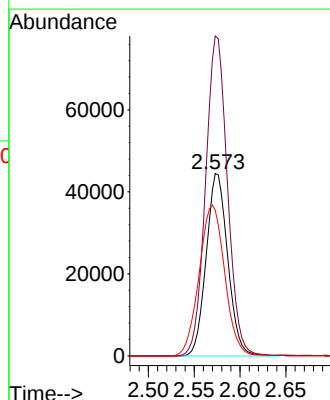
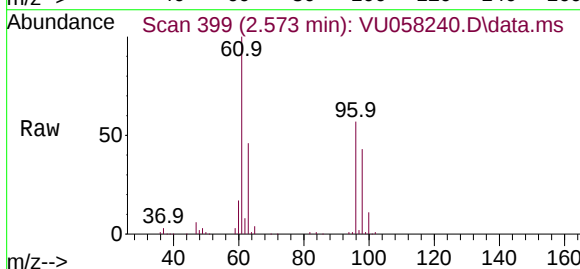
Tgt Ion: 96 Resp: 72695

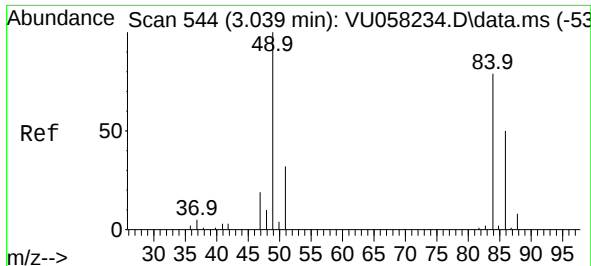
Ion Ratio Lower Upper

96 100

61 175.4 128.1 237.9

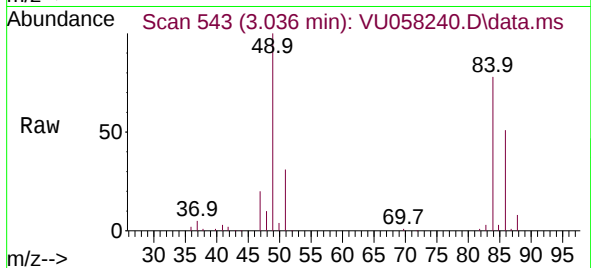
63 79.9 116.8 217.0#





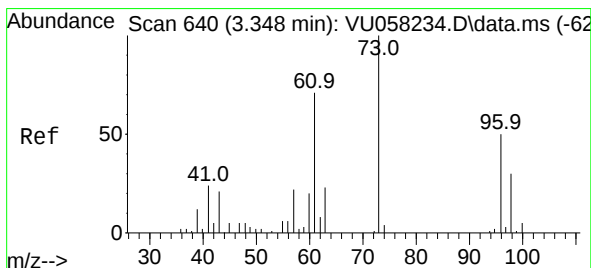
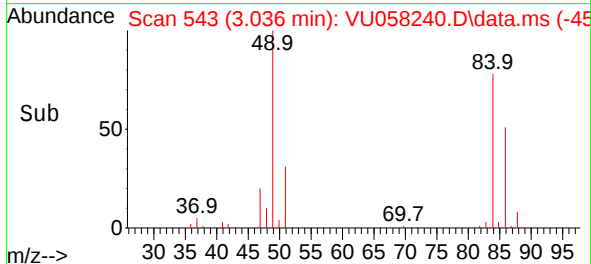
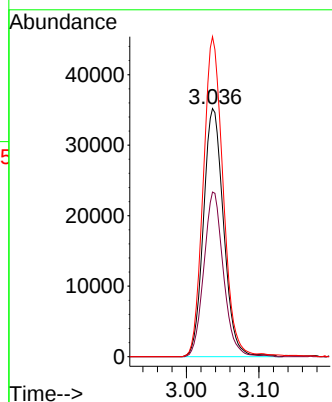
#16
Methylene chloride
Concen: 13.298 ug/L
RT: 3.036 min Scan# 544
Delta R.T. -0.003 min
Lab File: VU058240.D
Acq: 28 Mar 2024 15:31

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 84 Resp: 67875

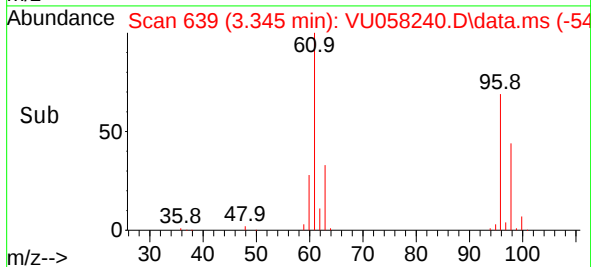
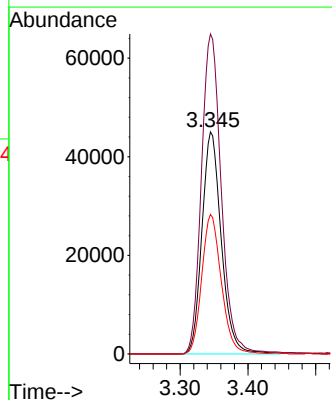
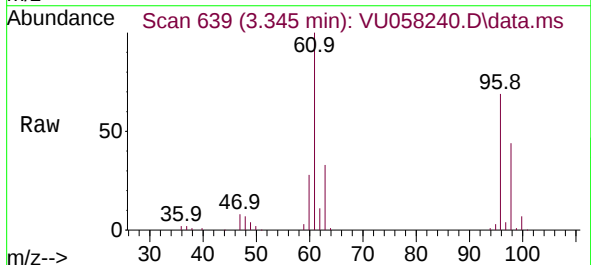
Ion	Ratio	Lower	Upper
84	100		
86	66.3	45.6	84.6
49	129.0	88.3	163.9

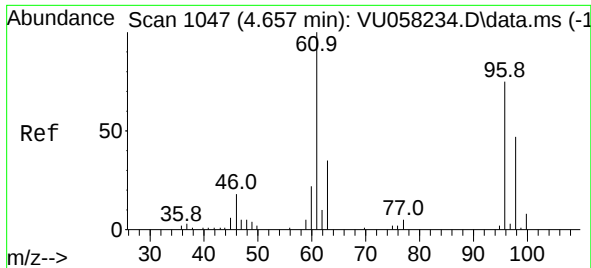


#18
trans-1,2-Dichloroethene
Concen: 23.764 ug/L
RT: 3.345 min Scan# 639
Delta R.T. -0.003 min
Lab File: VU058240.D
Acq: 28 Mar 2024 15:31

Tgt Ion: 96 Resp: 89460

Ion	Ratio	Lower	Upper
96	100		
61	144.0	102.5	190.3
98	62.8	44.0	81.8





#22

cis-1,2-Dichloroethene

Concen: 3.660 ug/L

RT: 4.656 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

ClientSampleId :

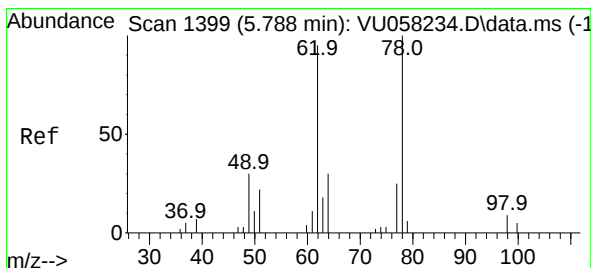
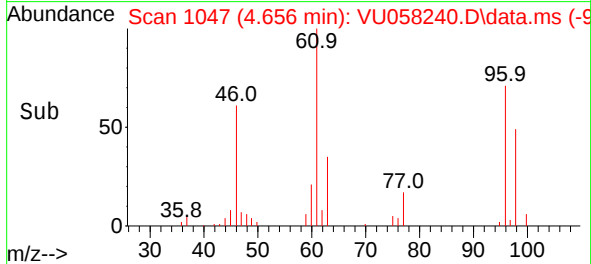
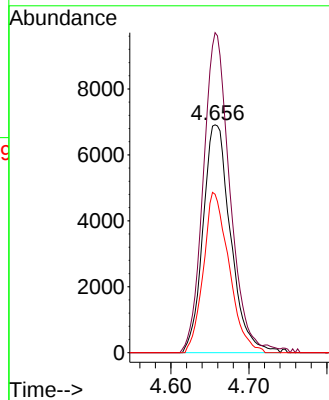
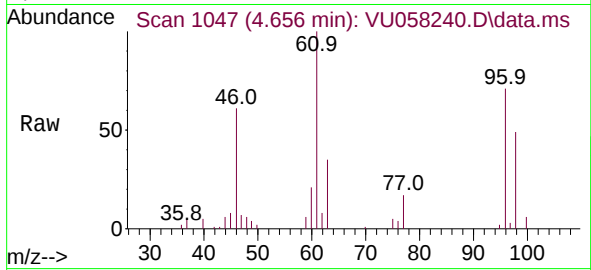
Tgt Ion: 96 Resp: 17024

Ion Ratio Lower Upper

96 100

61 140.5 92.8 172.4

98 69.5 43.2 80.2



#27

1,2-Dichloroethane

Concen: 12.890 ug/L

RT: 5.785 min Scan# 1398

Delta R.T. -0.003 min

Lab File: VU058240.D

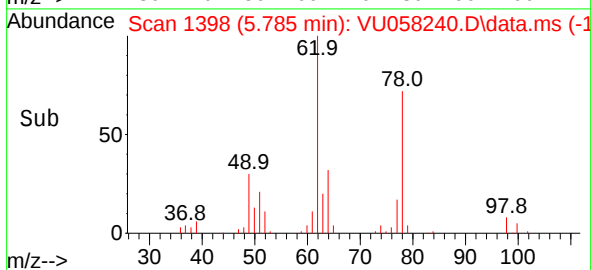
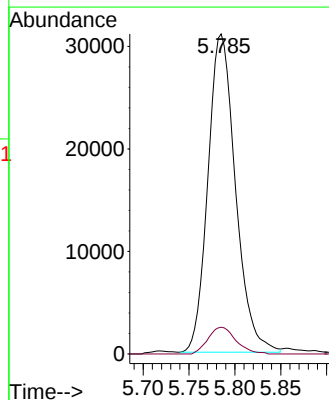
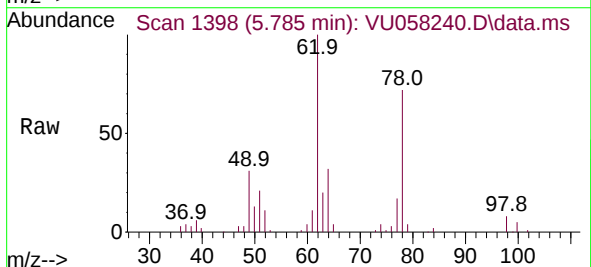
Acq: 28 Mar 2024 15:31

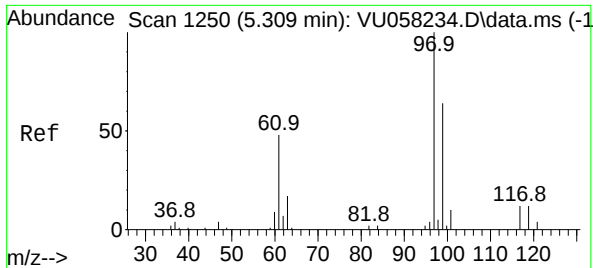
Tgt Ion: 62 Resp: 64913

Ion Ratio Lower Upper

62 100

98 8.4 6.6 10.0

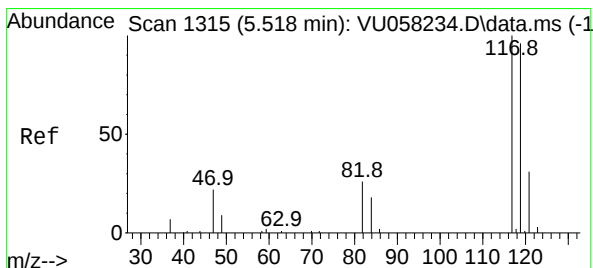
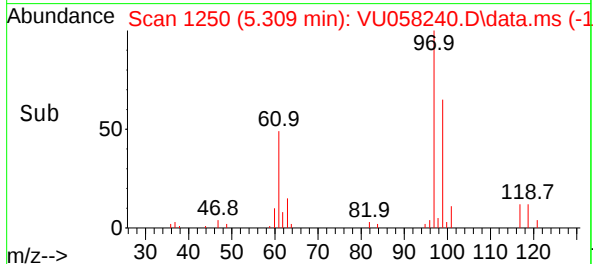
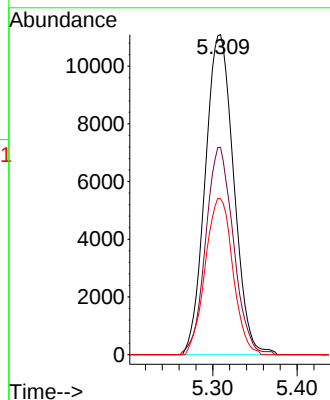
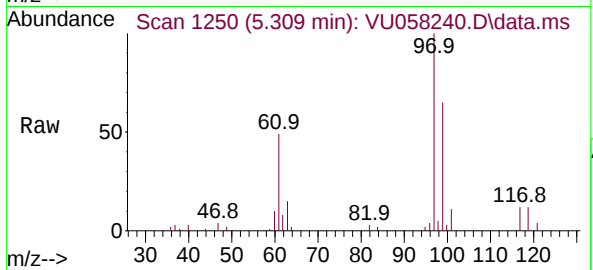




#29
1,1,1-Trichloroethane
Concen: 3.677 ug/L
RT: 5.309 min Scan# 1250
Delta R.T. -0.000 min
Lab File: VU058240.D
Acq: 28 Mar 2024 15:31

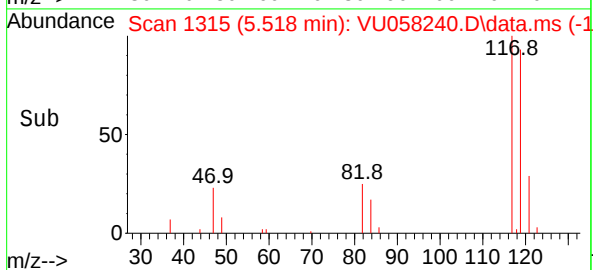
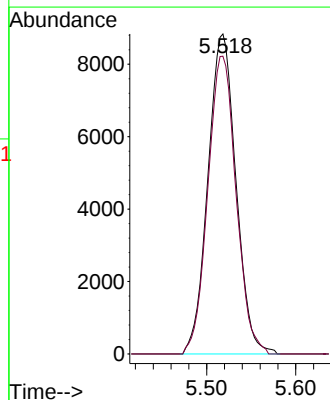
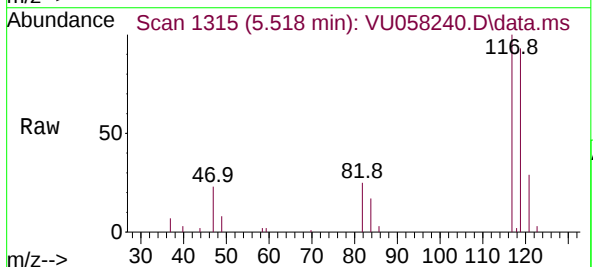
Instrument :
MSVOA_U
ClientSampleId :

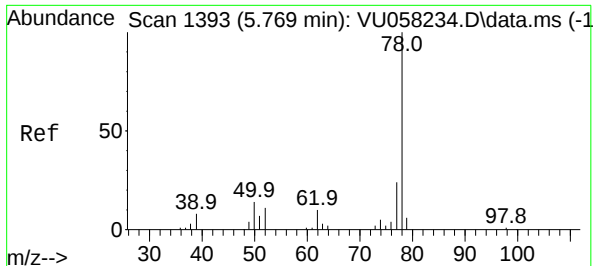
Tgt Ion: 97	Resp: 26097
Ion Ratio	Lower Upper
97	100
99	63.0 50.5 75.7
61	47.3 36.3 54.5



#31
Carbon tetrachloride
Concen: 3.194 ug/L
RT: 5.518 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VU058240.D
Acq: 28 Mar 2024 15:31

Tgt Ion: 117	Resp: 19296
Ion Ratio	Lower Upper
117	100
119	93.7 78.1 117.1





#33

Benzene

Concen: 7.014 ug/L

RT: 5.766 min Scan# 1393

Delta R.T. -0.003 min

Lab File: VU058240.D

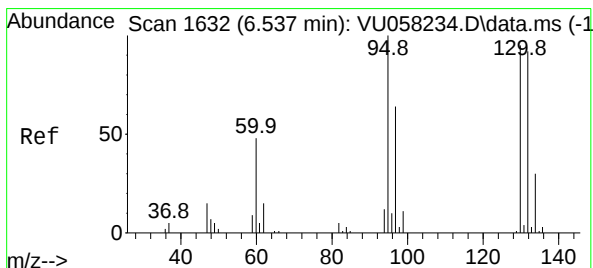
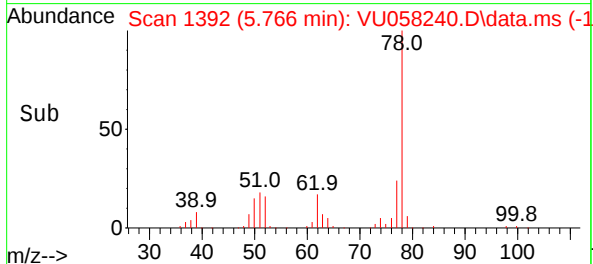
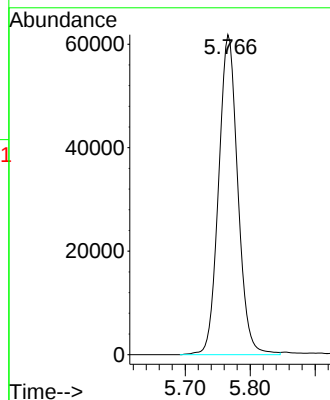
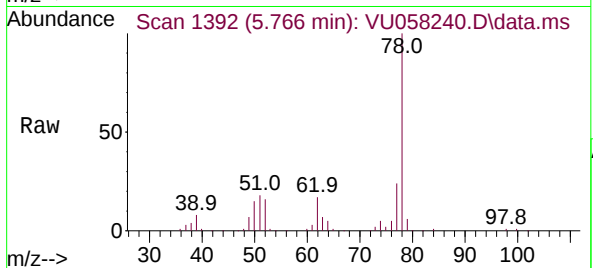
Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 126467



#34

Trichloroethene

Concen: 3.806 ug/L

RT: 6.534 min Scan# 1631

Delta R.T. -0.003 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Tgt Ion: 95 Resp: 17879

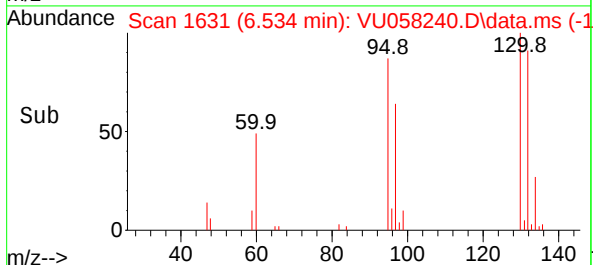
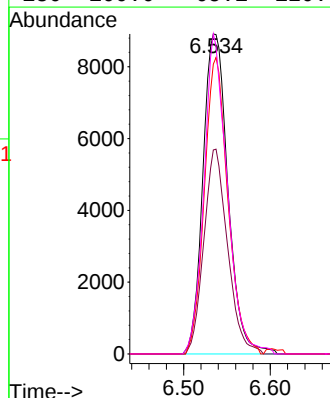
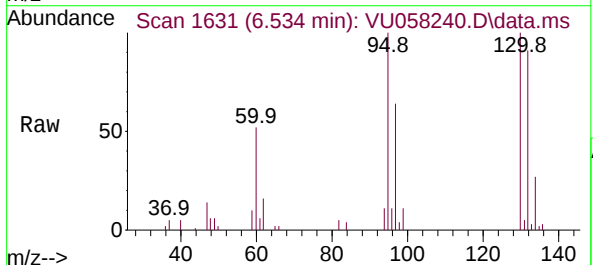
Ion Ratio Lower Upper

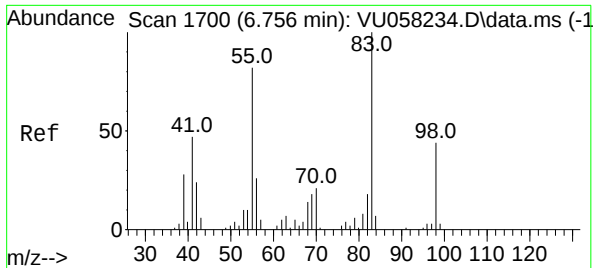
95 100

97 63.7 47.7 88.7

132 90.6 63.6 118.2

130 100.0 65.1 120.9





#35

Methylcyclohexane

Concen: 1.026 ug/L

RT: 6.682 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

ClientSampleId :

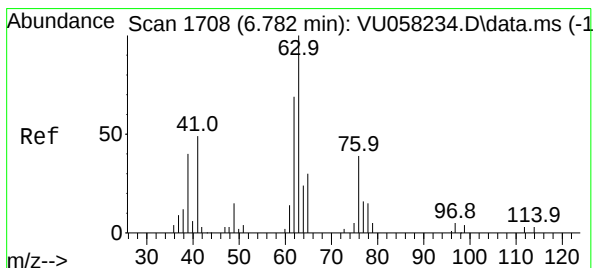
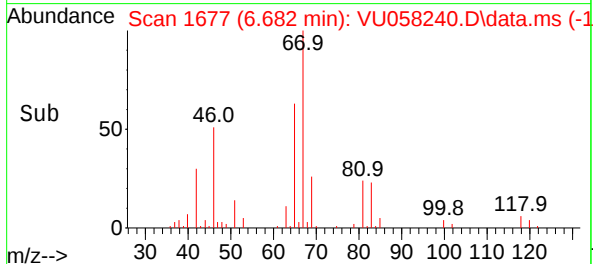
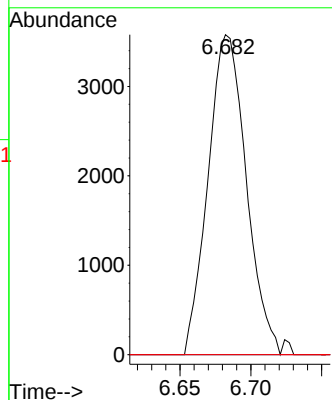
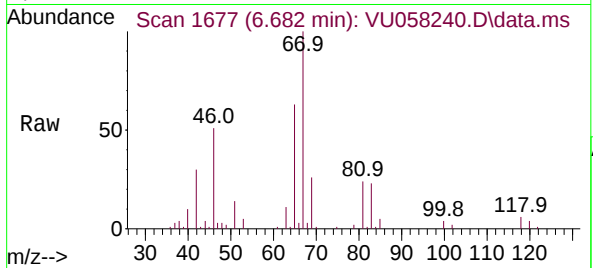
Tgt Ion: 83 Resp: 6720

Ion Ratio Lower Upper

83 100

55 0.0 62.7 94.1#

98 5.0 37.3 55.9#



#37

1,2-Dichloropropane

Concen: 3.615 ug/L

RT: 6.785 min Scan# 1709

Delta R.T. 0.003 min

Lab File: VU058240.D

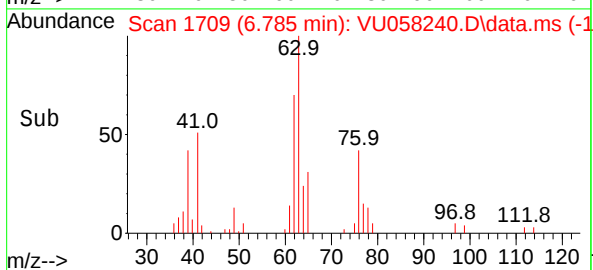
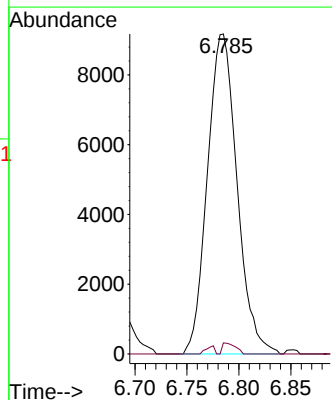
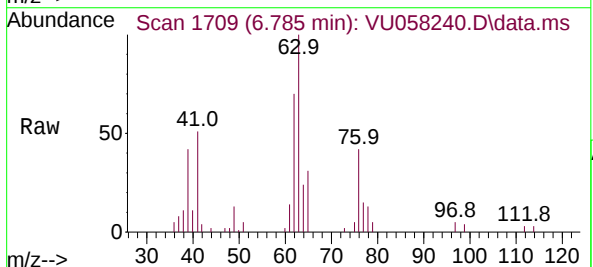
Acq: 28 Mar 2024 15:31

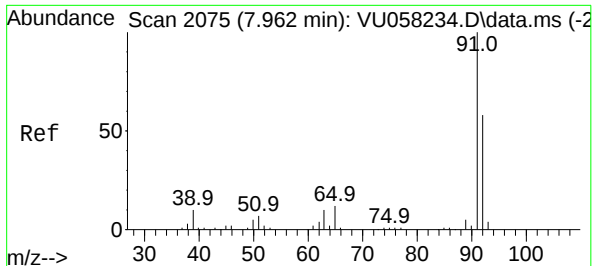
Tgt Ion: 63 Resp: 18208

Ion Ratio Lower Upper

63 100

112 1.5 2.7 4.1#

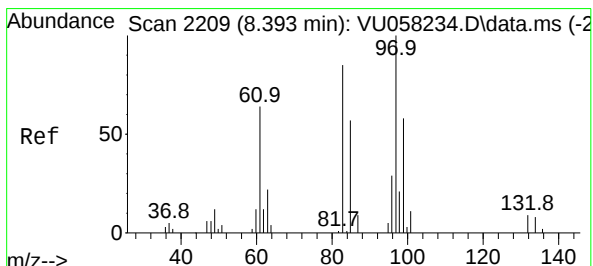
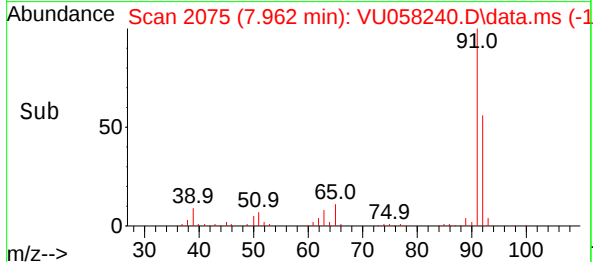
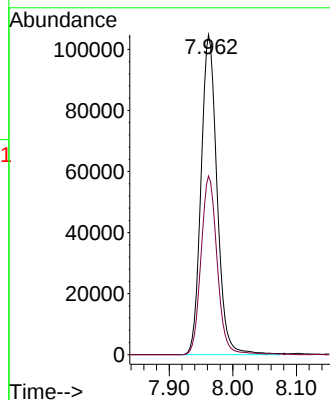
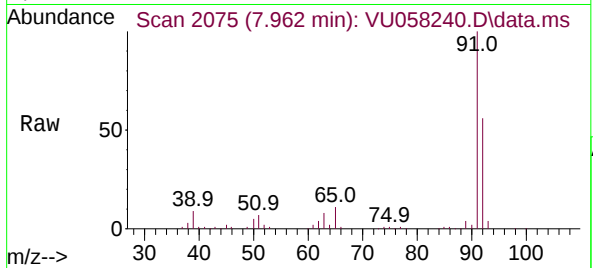




#42
Toluene
Concen: 9.618 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. -0.000 min
Lab File: VU058240.D
Acq: 28 Mar 2024 15:31

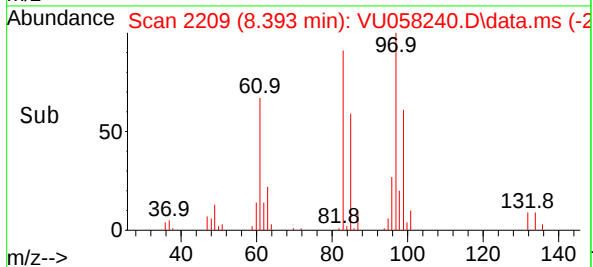
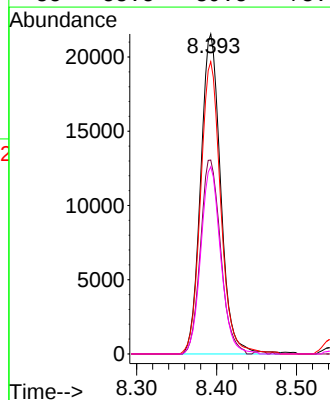
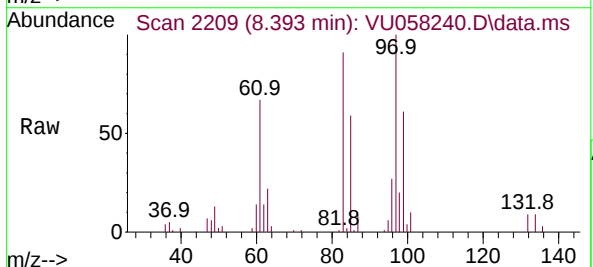
Instrument :
MSVOA_U
ClientSampleId :

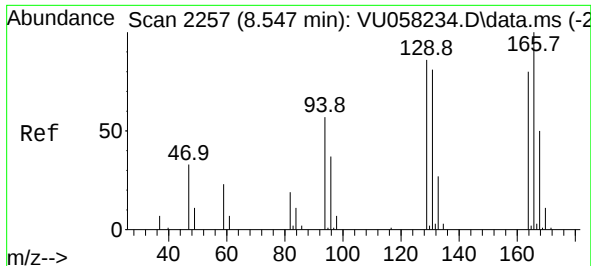
Tgt Ion: 91 Resp: 183226
Ion Ratio Lower Upper
91 100
92 55.9 40.7 75.5



#45
1,1,2-Trichloroethane
Concen: 11.832 ug/L
RT: 8.393 min Scan# 2209
Delta R.T. -0.000 min
Lab File: VU058240.D
Acq: 28 Mar 2024 15:31

Tgt Ion: 97 Resp: 37537
Ion Ratio Lower Upper
97 100
99 60.6 44.5 82.7
83 91.4 64.1 119.1
85 58.5 39.5 73.4





#47

Tetrachloroethene

Concen: 20.270 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

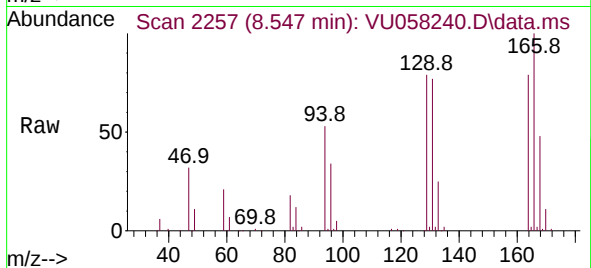
Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 63775

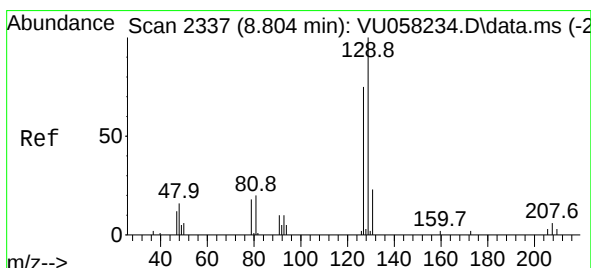
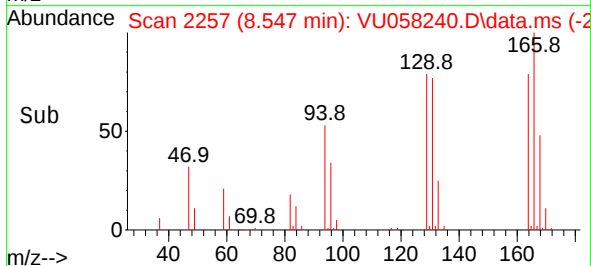
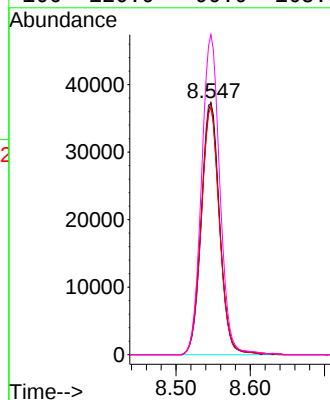
Ion Ratio Lower Upper

164 100

129 99.6 71.3 132.3

131 98.1 70.8 131.4

166 126.9 90.9 168.9



#49

Dibromochloromethane

Concen: 18.322 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.257 min

Lab File: VU058240.D

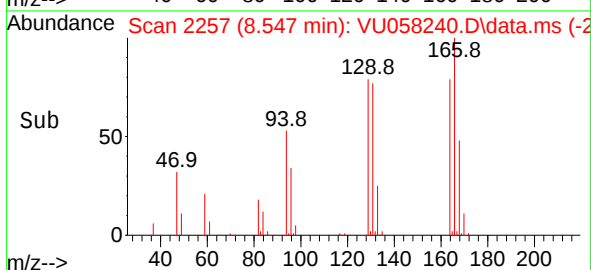
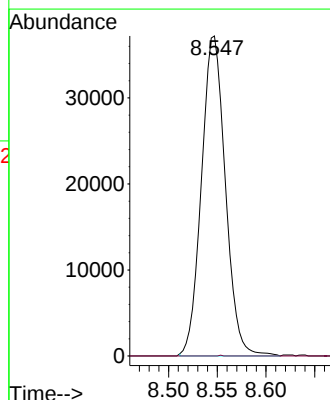
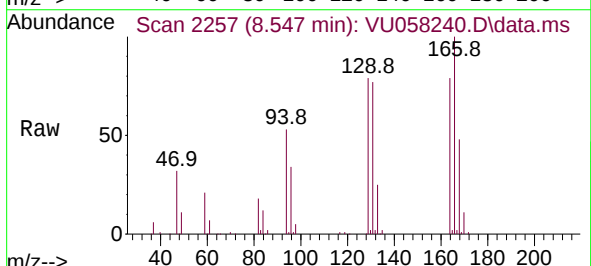
Acq: 28 Mar 2024 15:31

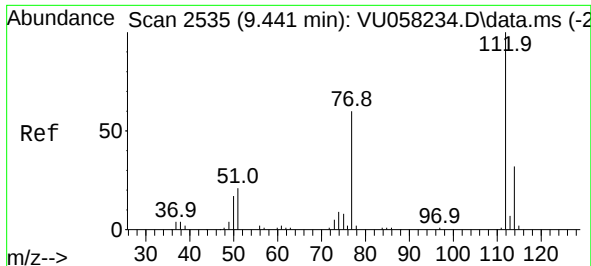
Tgt Ion:129 Resp: 63605

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#





#51

Chlorobenzene

Concen: 13.019 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. -0.000 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

ClientSampleId :

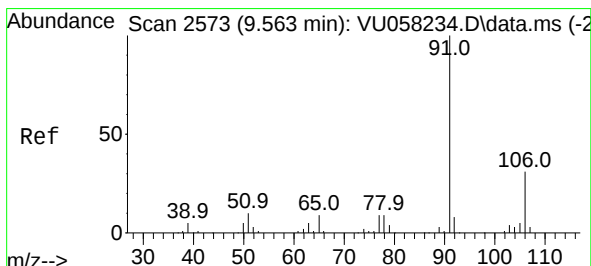
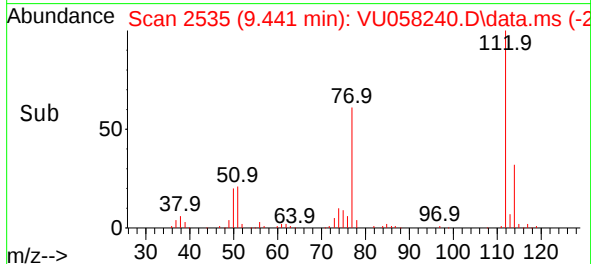
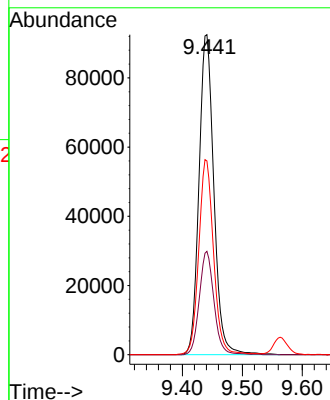
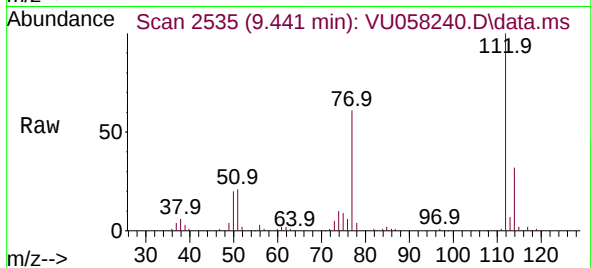
Tgt Ion:112 Resp: 159798

Ion Ratio Lower Upper

112 100

114 32.3 22.7 42.3

77 60.6 48.9 73.3



#52

Ethylbenzene

Concen: 4.151 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. -0.000 min

Lab File: VU058240.D

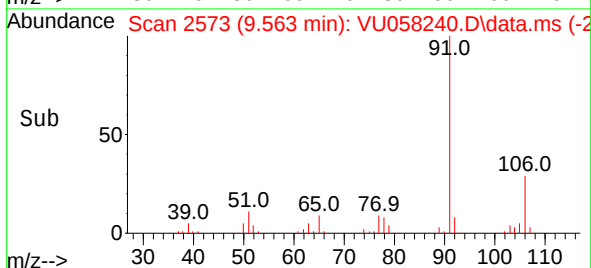
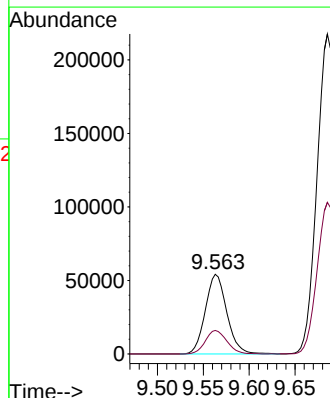
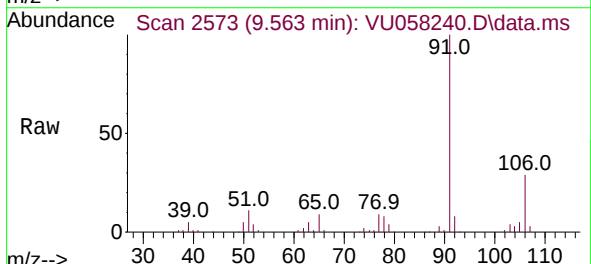
Acq: 28 Mar 2024 15:31

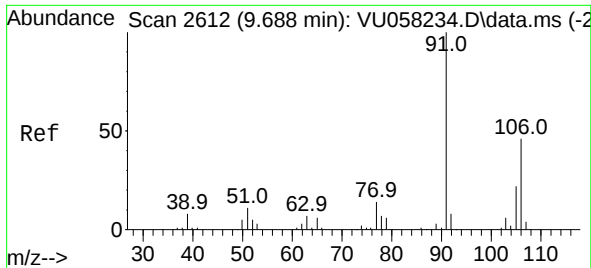
Tgt Ion: 91 Resp: 88300

Ion Ratio Lower Upper

91 100

106 29.5 20.6 38.2

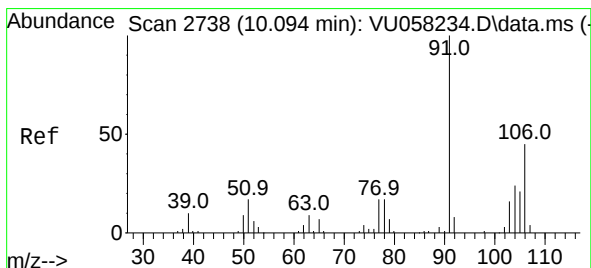
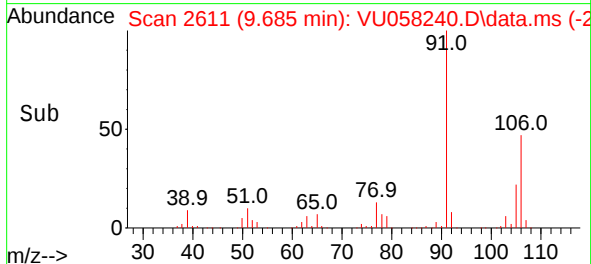
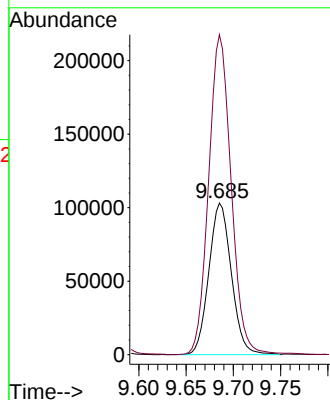
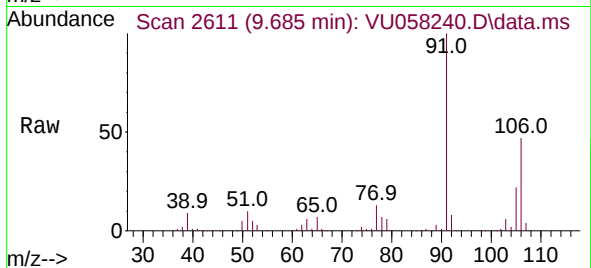




#53
m,p-Xylene
Concen: 22.572 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. -0.003 min
Lab File: VU058240.D
Acq: 28 Mar 2024 15:31

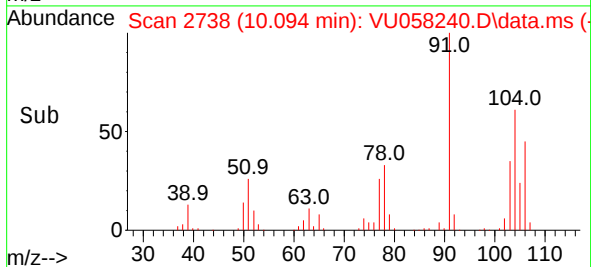
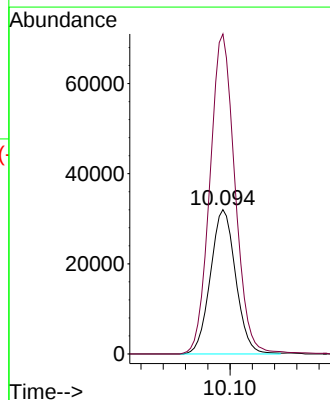
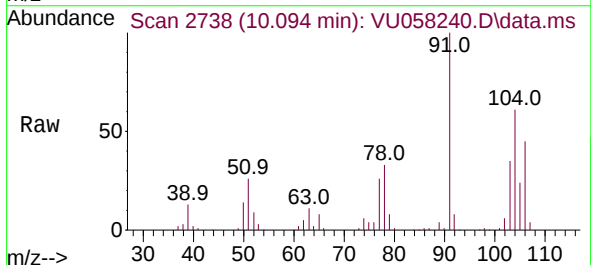
Instrument :
MSVOA_U
ClientSampleId :

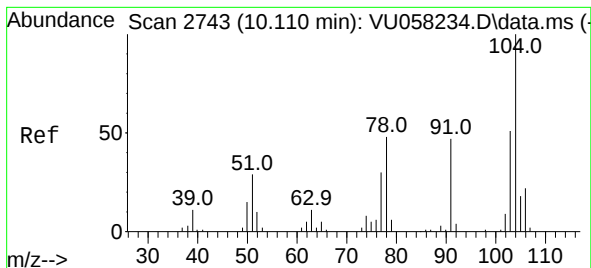
Tgt Ion:106 Resp: 171078
Ion Ratio Lower Upper
106 100
91 210.9 151.0 280.4



#54
o-Xylene
Concen: 6.590 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. -0.000 min
Lab File: VU058240.D
Acq: 28 Mar 2024 15:31

Tgt Ion:106 Resp: 50421
Ion Ratio Lower Upper
106 100
91 221.6 154.3 286.7





#55

Styrene

Concen: 14.762 ug/L

RT: 10.106 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

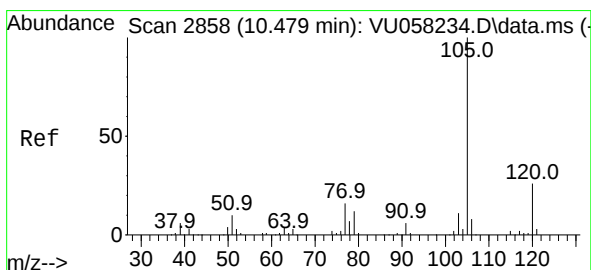
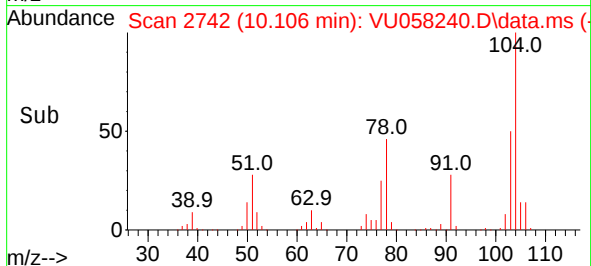
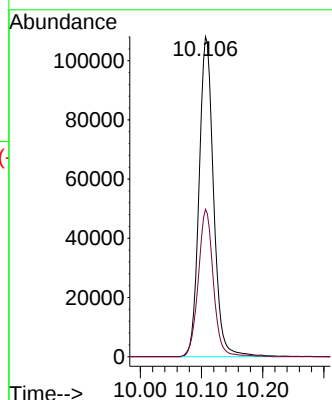
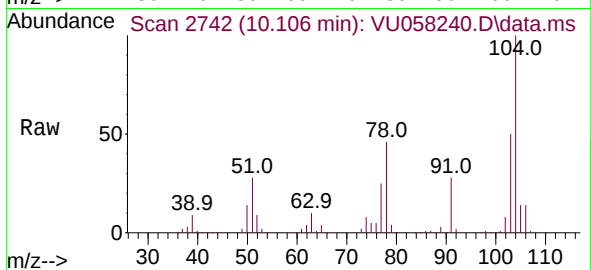
ClientSampleId :

Tgt Ion:104 Resp: 178330

Ion Ratio Lower Upper

104 100

78 46.0 34.5 64.1



#60

Isopropylbenzene

Concen: 1.833 ug/L

RT: 10.097 min Scan# 2739

Delta R.T. -0.383 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

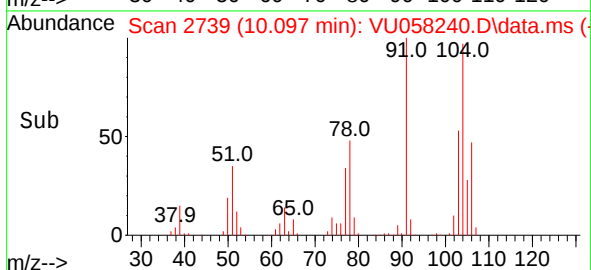
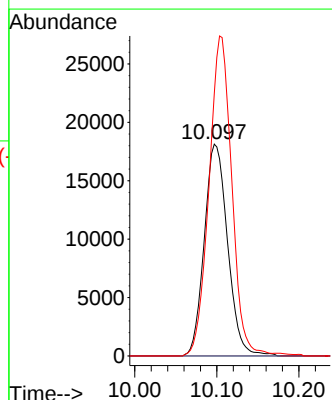
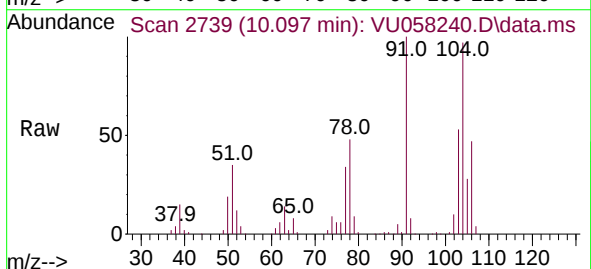
Tgt Ion:105 Resp: 35839

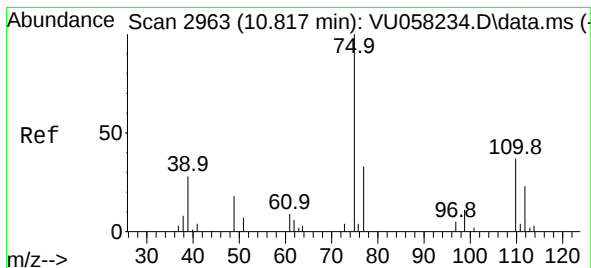
Ion Ratio Lower Upper

105 100

120 0.0 20.5 30.7#

77 147.1 13.2 19.8#





#61

1,2,3-Trichloropropane

Concen: 3.423 ug/L

RT: 10.106 min Scan# 21

Delta R.T. -0.711 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

ClientSampleId :

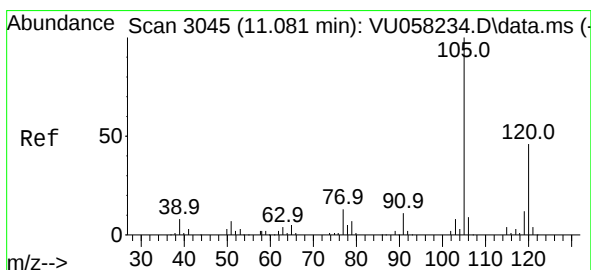
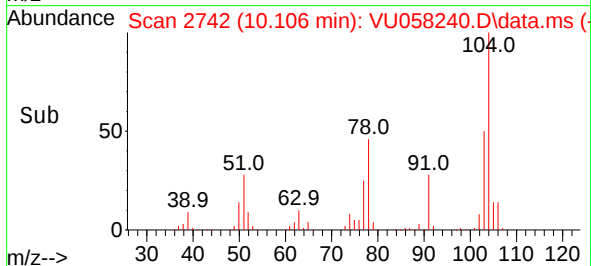
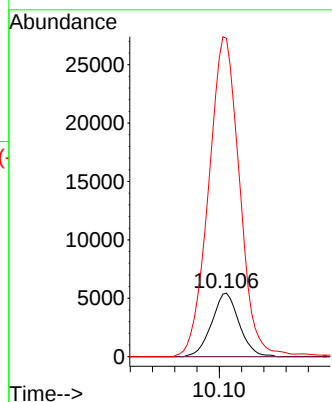
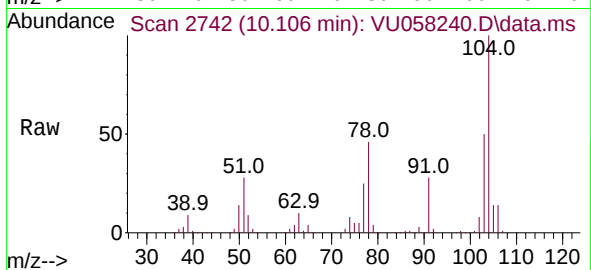
Tgt Ion: 75 Resp: 9329

Ion Ratio Lower Upper

75 100

110 0.0 28.1 42.1#

77 565.3 25.1 37.7#



#62

1,3,5-Trimethylbenzene

Concen: 2.184 ug/L

RT: 10.097 min Scan# 2739

Delta R.T. -0.984 min

Lab File: VU058240.D

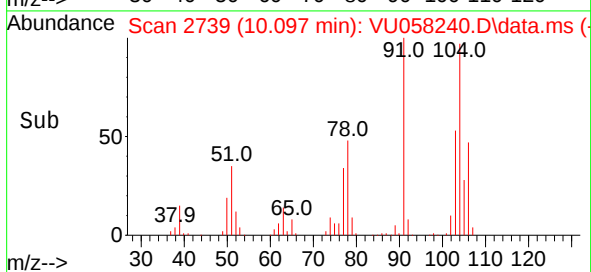
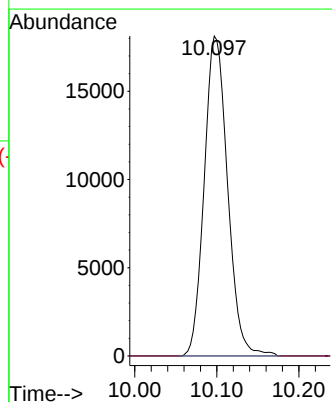
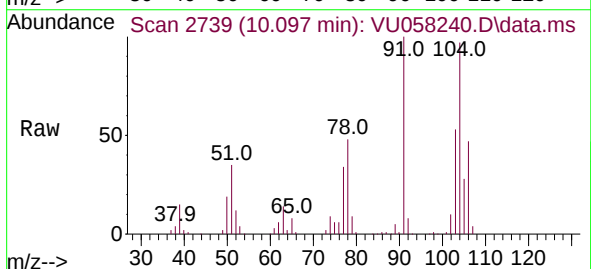
Acq: 28 Mar 2024 15:31

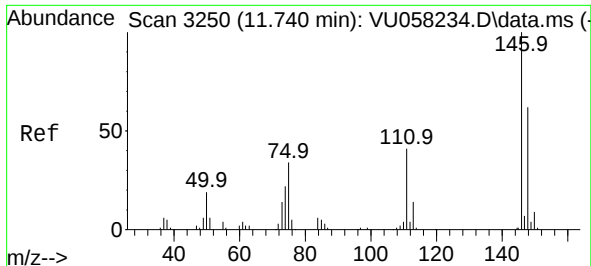
Tgt Ion:105 Resp: 35839

Ion Ratio Lower Upper

105 100

120 0.0 36.7 55.1#





#64

1,3-Dichlorobenzene

Concen: 2.558 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.090 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

ClientSampleId :

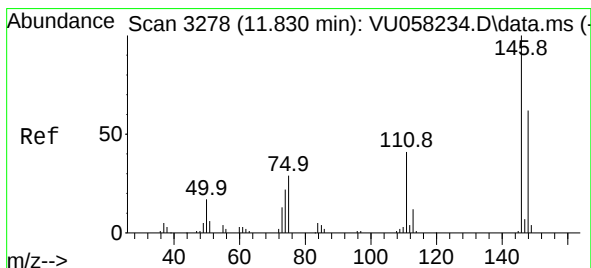
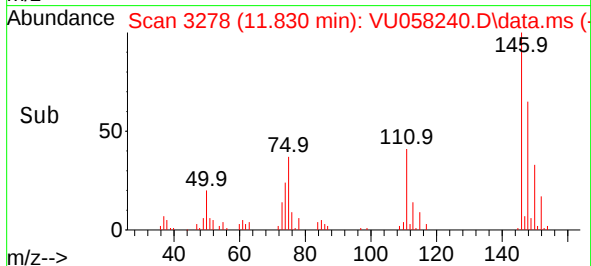
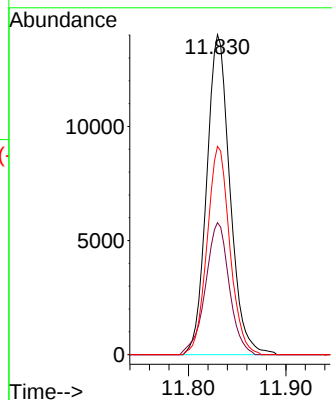
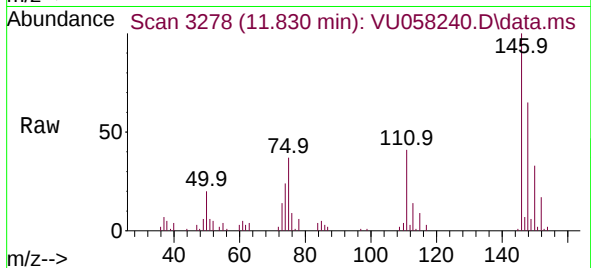
Tgt Ion:146 Resp: 23295

Ion Ratio Lower Upper

146 100

111 41.3 29.9 55.5

148 65.1 44.4 82.4



#65

1,4-Dichlorobenzene

Concen: 2.647 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

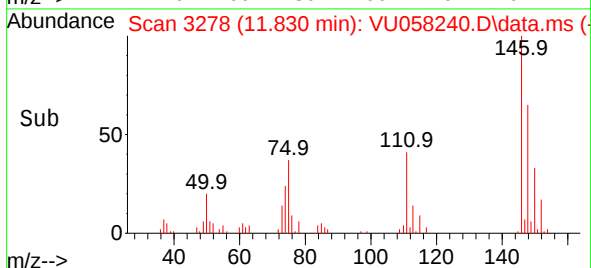
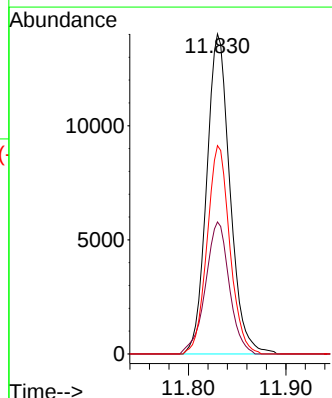
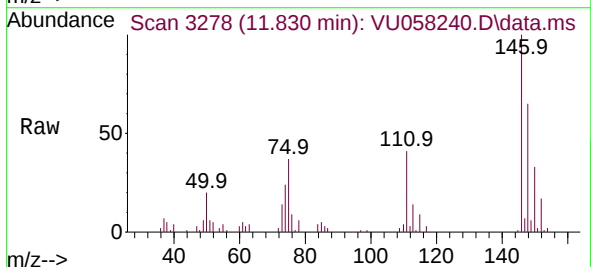
Tgt Ion:146 Resp: 23295

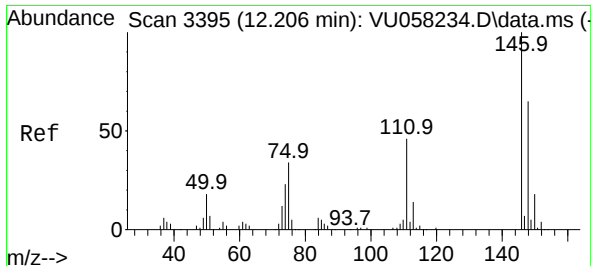
Ion Ratio Lower Upper

146 100

111 41.3 29.0 53.8

148 65.1 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 17.149 ug/L

RT: 12.206 min Scan# 3902

Delta R.T. -0.000 min

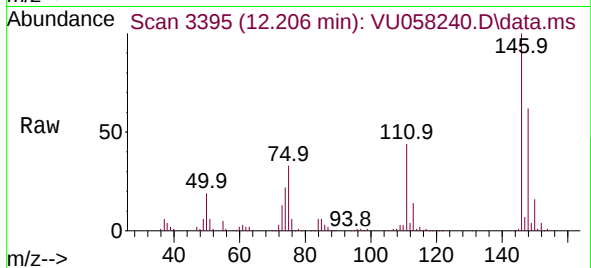
Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Instrument :

MSVOA_U

ClientSampleId :



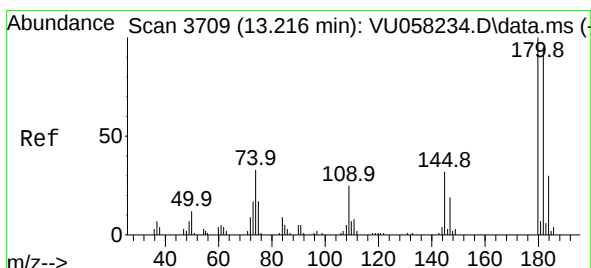
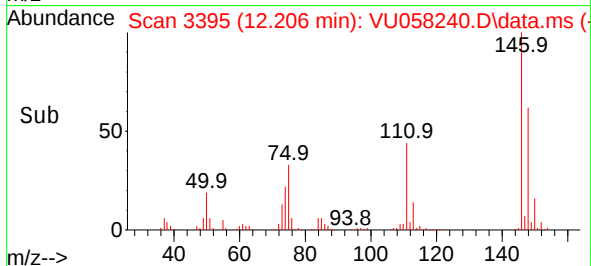
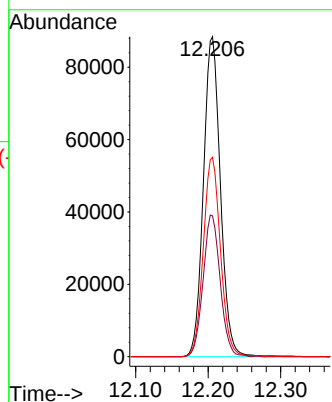
Tgt Ion:146 Resp: 144421

Ion Ratio Lower Upper

146 100

111 44.0 35.9 53.9

148 62.3 52.4 78.6



#69

1,3,5-Trichlorobenzene

Concen: 3.772 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.620 min

Lab File: VU058240.D

Acq: 28 Mar 2024 15:31

Tgt Ion:180 Resp: 24019

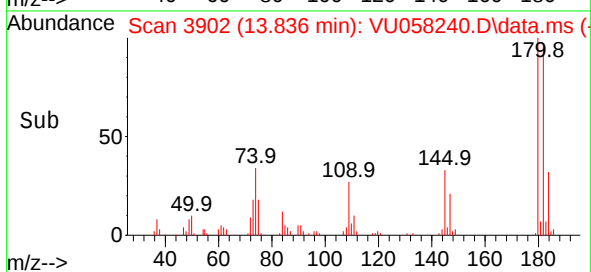
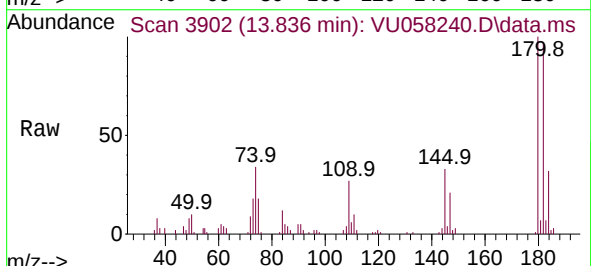
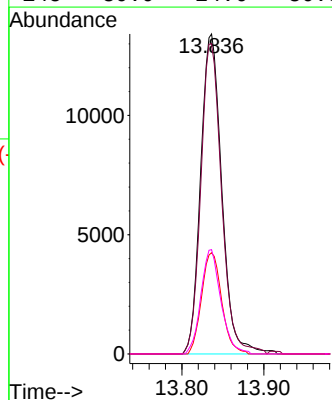
Ion Ratio Lower Upper

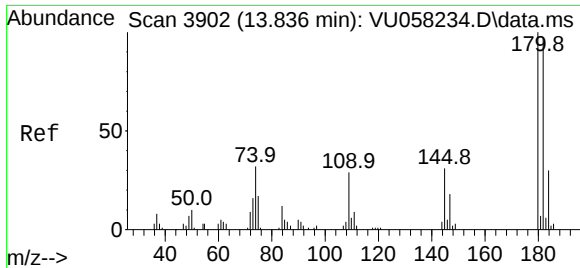
180 100

182 95.3 75.4 113.0

184 30.1 24.8 37.2

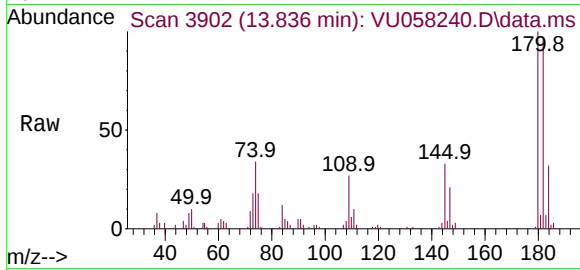
145 30.9 24.6 36.8





#70
 1,2,4-trichlorobenzene
 Concen: 5.057 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. -0.000 min
 Lab File: VU058240.D
 Acq: 28 Mar 2024 15:31

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	24019
Ion Ratio	Lower	Upper	
180	100		
182	95.3	74.5	111.7
145	30.9	24.5	36.7

